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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/541,394	03/29/2006	Matti Kivikko	06267.0128	6385	
22852 FINNEGAN 1	7590 01/15/200 HENDERSON FARAE	9 BOW, GARRETT & DUNNER	EXAM	IINER	
LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			STONE, CHRISTOPHER R		
			ART UNIT	PAPER NUMBER	
	,		1614		
			MAIL DATE	DELIVERY MODE	
			01/15/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/541,394	KIVIKKO ET AL.		
Examiner	Art Unit		
CHRISTOPHER R. STONE	1614		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
 - after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status	
1)🛛	Responsive to communication(s) filed on <u>01 October 2008</u> .
2a)⊠	This action is FINAL . 2b) This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Dis	position	of	Cla	im
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Disposition of Claims
4)⊠ Claim(s) <u>3-8</u> is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6)⊠ Claim(s) <u>3-8</u> is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.
Application Papers
9)☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stag
	application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
Information Disclosure Statement(s) (FTO/SE/08)	5) Notice of Informal Patent Application	
Paper No(s)/Mail Date 10/02/2008.	6) Other:	

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DETAILED ACTION

Applicants' arguments, filed October 1, 2008, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Response to Arguments

Applicant's arguments with respect to claims 3-8 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 3 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 3 is drawn to a method of inhibiting renal failure comprising administering levosimendan or its metabolite (R)-N-[4-(1,4,5,6- tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]acetamide, or any of their pharmaceutically acceptable salts thereof. The prior art teaches that renal failure is difficult to inhibit. In fact, there is no clinically accepted therapy that prevents or attenuates the course of acute renal failure (see

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Edelstein et al, p. S93, Conclusion and Bonventre et al, p. 2199, 1st column, lines 1-5). These negative teachings indicate a lack of predictability in the art. The instant specification provides no working examples demonstrating the efficacy of the instantly claimed method to inhibit renal failure. The experiment, on pages 6 and 7 of the specification, merely demonstrates the ability of levosimendan to reduce mortality in patients with renal insufficiency and heart failure. Additionally, the specification provides no guidance on how to carry out the inhibition of renal failure using the instantly claimed method. For these reasons, it would take undue burden by one of ordinary skill in the art to practice the instantly claimed method of inhibiting renal failure comprising administering levosimendan or its metabolite (R)-N-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]acetamide, or any of their pharmaceutically acceptable salts thereof.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pagel et al (Cardiovascular Drug Reviews, 14(5), p. 286-316, provided by Applicant) in view of Al-Ahmad et al (Seminars in Nephrology, 22(1), p. 3-12, 2001).

Claims 4-8 are drawn to a method of reducing the mortality in a mammal suffering from renal failure comprising administering levosimendan or its metabolite (R)-N-[4-(1,4,5,6- tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]acetamide, or any of their pharmaceutically acceptable salts thereof.

Pagel et al et al teaches the daily administration of levosimendan, orally, for the treatment of congestive heart failure (p. 311, first full paragraph, p. 313, 2nd full paragraph). Pagel et al further teaches that levosimendan has similar pharmacokinetics in patients without renal failure and in patients with renal failure (creatine clearance as low as 8ml/min/m, p. 304, first paragraph, p. 313, last paragraph). Pagel et al does not explicitly teach the administration of levosimendan to a patient with end stage renal failure.

Al-Ahmad et al teaches that hear failure occurs in 40 percent of patients with end stage renal failure (abstract).

Therefore it would have been prima facie obvious to one of ordinary skill in the art at the time of the instantly claimed invention to orally administer levosimendan daily to patients with end stage renal failure and a condition likely to benefit from Application/Control Number: 10/541,394

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levosimendan treatment (e.g. congestive heart failure) at similar dosages to patients without renal failure, since the composition was known to treat heart failure, which is common in patients with end stage renal failure and the bioavailability of the drug was known to be sufficient in patients with renal failure. Thus resulting in the practice of the instantly claimed method with a reasonable expectation of success.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER R. STONE whose telephone number is Art Unit: 1614

(571)270-3494. The examiner can normally be reached on Monday-Thursday, 7:30am-4:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin H. Marschel can be reached on (571) 272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

08January2008 CRS

/Patricia A. Duffy/ Primary Examiner, Art Unit 1645